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EUROPEAN PATENT APPLICATION

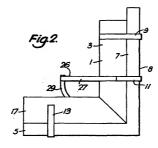
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(A) Child safety seat.

 effects mutual counter rotation of the restraints (17) to vary the height of the seat part (2). The safety seat (1) can also be provided with a backrest part (3) which includes lateral restraints (25) along opposite upright sides thereof. A child safety hamess (26) is attached to the safety seat (1) and straps (9, 11, 13) are provided to socure the parts of the seat (1) to the chair seat (5) and backrest (7). The safety seat (1) is of inflatable form.



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CHILD SAFETY SEAT

This invention relates to child safety seats and has for its object the provision of such a seat of adjustable seat height.

The present invention consists in a child safety seat for mounting on a chair having a seat and a backrest, comprising a seat portion which in the mounted position of said safety seat engages said seat of said chair, said seat portion including a child engaging seat part and respective elongated lateral restraints extending along and secured to opposite sides of said seat part disposed in a direction from front to rear thereof, there being provided adjustable length strap means connected at respective opposite ends to said restraints whereby adjustment of the length of said strap means effects mutual counter rotation of said restraints to vary the height of said child engaging seat part. Advantageously, said strap means, in use, extend beneath the seat portion.

Preferably, said restraints are each of tubular form and desirably of inflatable tubular form. Said child engagling seat part is also, advantageously, of inflatable form. Additional strap means are further provided to secure said seat part to said chair seat.

In a further form said child safety seat is provided with a backrest part which in the mounted position of said sheet engages said chair backrest. Suitably said backrest part includes respective elongated lateral restraints which extend along and are secured to opposite upright sides of said baclorest part. Advantagoously said said lateralestraints of said backrest are of tubular form. Preferably said lateral backrest restraints are of tubular inflatable form. Also said backrest part between said backrest lateral restraints is advantageously of inflatable form.

It will be understood that a child restrainting harness is normally provided with a child safety seat according to this invention.

The invention will now be described, by way of example, with reference to the accompanying drawings in which:-

FIGURE 1 is a front elevation of a child safety seat according to the invention mounted on a chair;

FIGURE 2 is a side elevation of the child safety seat of Figure 1; and,

FIGURE 3 is a front elevation of the seat part only of the safety seat of the other two Figures mounted on a chair seat.

Referring to the drawings, a child safety seat 1 comprises a seat portion 2 and a backrest portion 3 which ar respectively securable to a seat 5 and backrest 7 of a chair 8 by straps 9 and 11 which are welded to the backrest portion 3 and provided

with buckles (not shown) to secure the backrest part 3 to the chair backrest 7 whilst strap 13 serves to secure the seat portion 2 to the chair seat 5.

The chair seat portion 2 comprises a child engaging seat part 15 having, at respective opposite sides thereof which extend from front to rear of said seat part 2, lateral restraints 17 of elongated tubular form. The strap 13 at opposite ends thereof is divided into strap parts 14 and 16 which are connected to the restraints 17 and is secured to the chair seat 5 by means of an adjusting buckle 19 (see Figure 3). The strap parts 14 and 16 can, alternatively, comprise a separate single strap welded at its ends to the corresponding restraint 17 and engaged by a loop attached to the adjacent free end of the strap 13. The restraints 17 are preferably of inflatable tubular form and the child engaging seat part 15 is also preferably of inflatable form. Between the restraints 17 adjacent the parts thereof which engage the chair seat 5 is a further strap 21, which may be an extension of the strap parts 16 and which has an adjusting buckle 23. Adjustment of the length of the strap 21 by means of the buckle 23 effects mutual counter rotation of the restraints 17 causing, depending on whether the strap means 21 is lengthened or shortened, lowering or raising of the child engaging seat part 15.

The backrest part 3 of the safety seat comprises a child engaging backrest part 24 and, excending along opposite upright sides of said part 24, backrest lateral restraints 25 which extend upwards from the rear ends of the restraints 17 and are also preferably of tubular form. The restraints 25 and backrest part 23 are also, further, of inflat-

Further provided, as is normal with child safety seats, is a child engaging harness 26 which in this case comprises a waist strap 27 attached at opposite ends thereof respectively to the restraints 26 and a crotch strap 29 attached at an end thereof to the child engaging seat part 15 between the front and rear edges thereof and to the waist strap 27 by a loop at the free end of the waist strap through

which the waist strap passes.

Although the Invention has been described in respect of a child safety seat having seat and backrest portions, the backrest portion may be eliminated where the child can be seated on the seat portion of the safety seat with the chair backrest serving to provide back support for the child. In such a case, plainty, the strap 27 would be a separate strap and would require to engage around the child and the back of the chair backress.

It will be apparent to those skilled in the art that

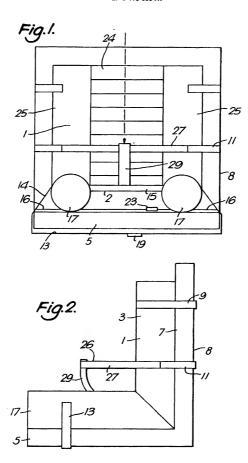
The invention provides a simple child safety seat, the seat height of which can be adjusted to suit the size of the child and/or the height of the table from which the child feeds or is fed.

Claims

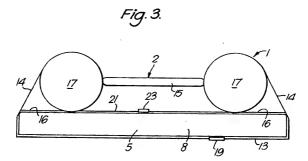
- 1. A child safety seat for mounting on a chair having a seat and a backrest, comprising a seat portion which in the mounted position of said safety seat engages said seat of said chair, said seat portion including a child engaging seat part and respective elongated lateral restraints extending along and secured to opposite sides of said seat part disposed in a direction from front to rear thereof, there being provided adjustable length strap means connected at respective opposite ends to said restraints whereby adjustment of the length of said strap means effects mutual counter rotation of said restraints to vary the height of said child engaging seat part.
- A child safety seat as claimed in Claim 1, characterised in that said strap means extend in use beneath said seat portion.
- A child safety seat as claimed in Claim 1 or Claim 2, characterised in that said restraints are each of tubular form.
- A child safety seat as claimed in any one of Claims 1 to 3, characterised in that said restraints are each of tubular inflatable form.
- A child safety seat as claimed in any preceding claim, characterised in that said child engaging seat part is of inflatable form.
- 6. A child safety seat as claimed in any preceding claim, characterised in that further strap means are provided for securing said seat part to said chair
- 7. A child safety seat as claimed in any preceding claim, characterised in that said safety seat is provided with a backrest partwhich in the mounted position of said sheet engages said chair backrest.
- A child safety seat as claimed in Claim 7, characterised in that said backrest part includes respective longated lateral restraints which extend

- along opposite upright sides of sald backrest part.

 9. A child safety seat as claimed in Claim 7 or
- A child safety seat as claimed in Claim 7 or Claim 8, characterised in that said lateral restraints of said backrest are of tubular form.
- 5 10. A child safety seat as claimed in Claim 9, characterised in that said lateral backrest restraints are of tubular Inflatable form.
 - A child safety seat as claimed in any one of Claims 7 to 10, characterised in that said backrest part is of inflatable form.
 - 12. A child safety seat as claimed in any one of Claims 7 to 11, characterised in that said backrest part is provided with strap means for securing said backrest part to said chair backrest.
- 5 13. A child safety seat as claimed in any preceding claim, characterised in that attached to said seat is a child restraining harness.
- 14. A child safety seat as claimed in any one of Calms 7 to 12, characterised in that said harness of comprises a waist strap attached to said backrest part and a crotch strap attached to said seat part, said crotch and waist strap being mutually coupled in use.
- 15. A child safety seat as claimed in Claim 7, s characterised in that said seat part and said backrest part are of inflatable form.



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	DOCUMENTS CONS	IDERED TO BE RELEVAN	Г		
Category	Citation of document with of relevant p	indication, where appropriate,	Relevant to claim	CLASSIFICATION OF TE APPLICATION (Int. Cl.5)	
Α	US-A-4 836 605 (G * Column 1, line 6 33; figures *	REENWOOD)	1,3-6	A 47 D 1/10	
A	GB-A- 545 927 (E * Page 3, line 70 figures 1-4 *	LLIOT) - page 4, line 18;	1,3-4,6 -10		
A	US-A-3 366 294 (S' * Column 3, line 2: figures *	TEPHENSON) 1 - column 4, line 5;	13,14		
				TECHNICAL FIELDS SEARCHED (Ibl. Cl.5)	
				A 47 C A 47 D B 60 N	
	The present search report has	· ·			
THE	Place of search HAGUE	Date of completion of the sourch 17–10–1990	VAND	EVONDELE J.P.H.	
CATEGORY OF CITED DOCUMENTS X: particularly relevant if takes above Y: particularly relevant if combined with another document of the stane category A: technological leadinguise P: intermediate document		NTS T: theory or principle E: earlier patent doc after the filling do other D: document cited in L: document cited for	T: theory or principle underlying the lawrentee E: entitle parent decrement, but published on, or offer the filling date D: document circle in the application L: document circle for other reasons A: member of the same pattent family, corresponding		